

Exhibit 7

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<p>1 implemented in native code in that way?</p> <p>2 A. There are usually two or three possible</p> <p>3 reasons. One is the code needs to use a feature that is</p> <p>4 simply not available any other way. It could be for</p> <p>5 performance reasons. 12:07:55</p> <p>6 Q. It may be a better performance to execute a</p> <p>7 particular method natively rather than interpreting</p> <p>8 Dalvik byte code?</p> <p>9 A. Yes.</p> <p>10 Q. And for both the internal method call and the 12:08:19</p> <p>11 in-line execution, these are -- I'm not sure what the</p> <p>12 right word would be. Are these features or facilities</p> <p>13 that are used by application programmers or is it just</p> <p>14 built into Dalvik and Dalvik decides what to do?</p> <p>15 MR. WEINGAERTNER: Objection to form. 12:08:41</p> <p>16 THE WITNESS: Those are exclusive to Dalvik.</p> <p>17 Q. BY DR. PETERS: So application programmers,</p> <p>18 they would use JNI to access to their native methods?</p> <p>19 A. Yes.</p> <p>20 Q. A bit it ago you mentioned that in the case 12:09:10</p> <p>21 of a method call, Dalvik would begin creating a stack</p> <p>22 frame; is that right?</p> <p>23 A. Yes.</p> <p>24 Q. We had discussed before that Dalvik was a</p> <p>25 register-based rather than a stack-based machine. What's 12:09:28</p> <p style="text-align: right;">Page 78</p>	<p>1 frame. It has a -- the set of arguments that were passed</p> <p>2 into the method and the working set of registers that are</p> <p>3 available to that method. There is an area for -- we</p> <p>4 call it the "outs" area. It is for arguments that are</p> <p>5 being passed to a method that is being called, and 12:11:37</p> <p>6 there's a couple extra bits of saved state that are held</p> <p>7 inside the stack frame.</p> <p>8 Q. But just to confirm, when we say that Dalvik</p> <p>9 works with stack frames for method invocation, that's</p> <p>10 unrelated to whether it's a register-based or stack-based 12:12:04</p> <p>11 machine?</p> <p>12 A. Yes.</p> <p>13 DR. PETERS: Let's go to a new exhibit.</p> <p>14 (Oracle Exhibit 70 marked.)</p> <p>15 Q. BY DR. PETERS: If you could take a look at 12:12:51</p> <p>16 Exhibit 70 and tell me what it is.</p> <p>17 A. This appears to be an email from Tim Lindholm</p> <p>18 regarding a Skelmir conference call.</p> <p>19 Q. And part of this email string was written by</p> <p>20 you? 12:13:13</p> <p>21 A. Yes.</p> <p>22 Q. Does this refresh your recollection about the</p> <p>23 conference call with a VM company referred to in the</p> <p>24 June 26th, 2006 entry for snippets?</p> <p>25 A. Yes. 12:13:59</p> <p style="text-align: right;">Page 80</p>
<p>1 the difference there between stack frames and being a</p> <p>2 register-based machine?</p> <p>3 MR. WEINGAERTNER: Object to form.</p> <p>4 THE WITNESS: A stack-based machine is</p> <p>5 constantly pushing and popping operands from basic 12:09:47</p> <p>6 operations. So if I want to add two values together, I</p> <p>7 push both of them onto an operand stack, and then they</p> <p>8 both get popped off as part of doing the addition, and</p> <p>9 the result is then pushed on.</p> <p>10 For method calls, this is a different 12:10:08</p> <p>11 operation.</p> <p>12 Q. BY DR. PETERS: Was there a different level</p> <p>13 of the architecture, would it be fair to say?</p> <p>14 A. I don't think I'd put it that way.</p> <p>15 Q. How would you put it? 12:10:23</p> <p>16 MR. WEINGAERTNER: Objection to form.</p> <p>17 THE WITNESS: It is an -- it is a -- how</p> <p>18 would I put it? It is unique to method invocation.</p> <p>19 Q. BY DR. PETERS: Is it the idea that every</p> <p>20 method is -- that there's a frame for every method; is 12:10:45</p> <p>21 that the idea?</p> <p>22 A. Yes.</p> <p>23 Q. What information is stored in that frame or</p> <p>24 relates to that frame?</p> <p>25 A. Let's see. It has a pointer to the previous 12:11:04</p> <p style="text-align: right;">Page 79</p>	<p>1 Q. And what do you now remember?</p> <p>2 A. Still not very much.</p> <p>3 Q. How -- how far did you get in discussions</p> <p>4 with Skelmir?</p> <p>5 A. Since I was at that point working on Dalvik, 12:14:36</p> <p>6 my discussions with Skelmir did not, that I can recall,</p> <p>7 go past the conference call.</p> <p>8 Q. The last line of your email is: "Overall, I</p> <p>9 think this is worth pursuing." What did you hope to gain</p> <p>10 from Skelmir? 12:15:03</p> <p>11 A. We were hoping to get a VM and a set of core</p> <p>12 libraries and some engineers.</p> <p>13 Q. But ultimately that acquisition didn't</p> <p>14 happen?</p> <p>15 A. Correct. 12:15:20</p> <p>16 Q. Was there a code name of any kind for this</p> <p>17 discussion or acquisition?</p> <p>18 A. Not that I can recall.</p> <p>19 Q. When Tim Lindholm wrote to you at the end of</p> <p>20 his email about the question of exposure around licenses, 12:15:49</p> <p>21 compatibility, et cetera, given Skelmir's lack of a Sun</p> <p>22 license, what did you take that to mean?</p> <p>23 MR. WEINGAERTNER: Objection to form.</p> <p>24 THE WITNESS: The -- he's referring to the --</p> <p>25 specifically the lack of access to the Sun VM 12:16:12</p> <p style="text-align: right;">Page 81</p>

Pages 78 to 81

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